

**SECRET****PRIORITY**

9 DEC 69 14 17z

047 68918

P 091400Z DEC 69

FM NPIC WASHDC

TO RCHOAAA/SAC OFFUTT AFB OMAHA NEBRASKA

RCHOAAA/544TH ARTW, OFFUTT AFB OMAHA NEBRASKA

RUHHABA/548TH RTG, HICKAM AFB, HAWAII

RUCRJCS/DIA

RUEFHQA/HQ USAF

BT

SECRET. CITE NPIC 7558

HQ USAF FOR AFIGOS, AFXOTR, AFNICAD

SAC FOR DIRI, DOSR, DISD

SUBJECT: EVALUATION OF GIANT NAIL MISSION GA-T-137, FLOWN 7 NOV 69

1. IMAGE QUALITY: THE IMAGE QUALITY AND INTERPRETATION SUITABILITY OF THIS MISSION IS POOR. THE MAJOR DEGRADING FACTORS ARE A GENERAL UNDEREXPOSED CONDITION THROUGHOUT THE MISSION AND AN APPARENT HIGH DEGREE OF ATMOSPHERIC ATTENUATION (HAZE). CLOUD COVER OBSCURES APPROXIMATELY 30 PERCENT OF THE ENTIRE MISSION.

## 2. MISSION DATA

A. MISSION NUMBER: GA-T-137, DATE: 7 NOV 69

B. CAMERA: IRIS II, SERIAL NUM: 8012

C. A/C NUM: 340

D. MODE: STEREO

E. T/O: 0032Z, C/ON: 0235Z

F. FILM TYPE: 3404, FILTER: W-23A

G. CHEMISTRY: UNK, PROCESSING FACILITY 548TH RTG

H. AVG GAMMA: UNK

## 3. ORIGINAL NEGATIVE:

A. EXPOSURE: AN UNDEREXPOSED CONDITION EXISTS INTERMITTENTLY THROUGHOUT THE MISSION. THIS CONDITION DISPLAYS NO DEFINITE PATTERN AND AFFECTS NO SPECIFIC MISSION SEGMENT. APPROXIMATELY 50 PERCENT OF THE MISSION IS UNDEREXPOSED.

B. DENSITY AND CONTRAST: THE DENSITY IS GENERALLY THIN AND THE CONTRAST IS LOW TO MEDIUM THROUGHOUT THE MISSION.

## C. IMAGED DEGRADATIONS:

(1) MULTIPLE MINUS DENSITY STREAKS ARE PRESENT, PARALLEL TO THE MAJOR AXIS OF EACH FORMAT, THROUGHOUT THE MISSION. THESE MINUS DENSITY STREAKS ARE APPARENTLY THE RESULT OF OBSTRUCTIONS IN THE EXPOSING SLIT.

(2) BANDING IS PRESENT ACROSS EACH FORMAT THROUGHOUT THE MISSION.

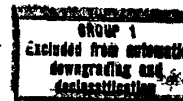
(3) A PLUS DENSITY MARK PARALLEL TO THE MINOR AXIS AND EXTENDING ACROSS THE FORMAT IS PRESENT 6 INCHES FROM THE SUPPLY END OF MOST AFT FRAMES AND 11.6 INCHES FROM THE SUPPLY END OF MOST FWD FRAMES THROUGHOUT THE MISSION. THESE MARKS ARE APPARENTLY THE RESULT OF AN ELECTROSTATIC DISCHARGE OCCURRING AT A FILM ROLLER.

(4) STATIC MARKS IN THE SHAPE OF A COMMA ARE PRESENT ON FRAMES 855 AND 856. THESE STATIC MARKS APPEAR AT AN INTERVAL OF APPROXIMATELY 4 INCHES THROUGHOUT BOTH FRAMES AND 1 INCH FROM THE TITLED EDGE OF THE FORMAT.

(5) A PLUS DENSITY PATTERN IS PRESENT 20.5 INCHES FROM THE TAKE-UP END OF EACH AFT FRAME (APPROXIMATELY 20 DEGREES RIGHT) STARTING ON FRAME 913 AND CONTINUING THROUGH THE END OF THE MISSION (FRAME 1006). THIS PATTERN HAS A FRAME TO FRAME DENSITY VARIATION, IS APPROXIMATELY ONE HALF INCH WIDE, AND PROTRUDES PERPENDICULAR FROM THE TITLED EDGE INTO THE FORMAT A DISTANCE

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OF APPROXIMATELY TWO INCHES, THIS DENSITY PATTERN IS APPARENTLY ASSOCIATED WITH A REFLECTION EXTERIOR TO THE CAMERA AND SEEMS TO BE SUN ANGLE DEPENDENT.

D. PHYSICAL DEGRADATIONS:

(1) AN ULTRASONIC SPLICE IS PRESENT ON FRAME 482.

(2) PROCESSING SPLICES ARE PRESENT BETWEEN FRAMES 91 - 92 AND 454-455.

(3) SILVER MYLAR TAPE HAS BEEN USED TO REPAIR A SMALL NICK ON THE EDGE OF THE FILM ON FRAME 649.

(4) PROCESSING MARKS AND/OR WATER MARKS ARE PRESENT ON APPROXIMATELY 10 TO 15 FRAMES OF THE MISSION.

(5) FINE EMULSION SCRATCHES ARE PRESENT, PARALLEL TO THE MAJOR FILM AXIS, THROUGHOUT THE MISSION MATERIAL.

(6) AN EXTRANEIOUS INK MARK IS PRESENT IN THE BORDER AREA 1.47 INCHES TO THE RIGHT OF EACH TITLED INDEX BULLS EYE. ANOTHER INK MARK IS ALSO PRESENT BELOW MANY INDEX NUMBERS, 0.3 INCH INTO THE FORMAT AREA. MANY INSTANCES OF SMEARED INK ARE PRESENT IN THE FORMAT AREA RESULTING FROM TITLING CORRECTIONS.

E. DATA RECORDING: ALL SYSTEMS FUNCTIONED PROPERLY THROUGHOUT THE MISSION.

F. THERE ARE 1007 FRAMES ON THIS MISSION.

4. POSITIVES: THE CONTRAST OF THE POSITIVES IS LOW DUE TO THE UNDEREXPOSURE OF THE ORIGINAL NEGATIVE. IN ADDITION, THE ORIGINAL NEGATIVE WAS MISALIGNED TO THE PRINTING STOCK BY APPROXIMATELY 0.1 INCH

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END OF MESSAGE